

AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An optical attenuator which adjusts transmission amount of an optical signal inputted through an optical signal transmission line and outputs the optical signal, comprising:

a silicon layer provided with a waveguide for transmitting the optical signal from the optical signal transmission line and an activator formed at a predetermined portion thereof;

a bonding medium layer provided with a cavity into which the waveguide is inserted, the bonding medium layer being bonded at a waveguide-formed face of the silicon layer; and

a support layer attached to the bonding medium layer at an opposite face to a face where the bonding medium layer is bonded with a silicon substrate.

2. (Original) The optical attenuator according to claim 1, wherein the bonding medium layer is formed of a polymer having a high light transmission.

3. (Original) The optical attenuator according to claim 2, wherein the bonding medium layer is formed of polydimethylsiloxane (PDMS).

4. (Original) The optical attenuator according to claim 1, wherein the support layer is made of glass.

5. (Original) The optical attenuator according to claim 1, wherein the cavity into which the waveguide is inserted has a width and a depth substantially same as those of the waveguide.

6. (Original) The optical attenuator according to claim 1, wherein the actuator formed in the silicon layer is a microelectromechanical system (MEMS) actuator which is movable in a horizontal direction depending on an application of a voltage.

7. (Original) The optical attenuator according to claim 6, wherein the MEMS actuator is a comb type actuator.

8-14. (cancelled)